

### ABSTRACT OF THE DISCLOSURE

A method for the functional control of a position measuring system that includes placing a scanning unit at a position with respect to a graduation, generating  
5 a first scanning signal and a second scanning signal during the displacing, forming a first measured position value, P1, in accordance with a first linkage rule that involves the first scanning signal and the second scanning signal and forming a second measured position value, P2, in accordance with a second linkage rule that involves the first scanning signal and the second scanning signal, wherein the first linkage rule  
10 differs from the second linkage rule. Comparing the first measured position value, P1, with the second measured position value, P2, and generating an error signal as a result of the comparing.

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